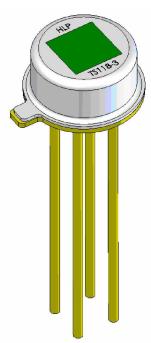


Thermopile Sensor TS118-3

Rev. 2: 21st June 2007

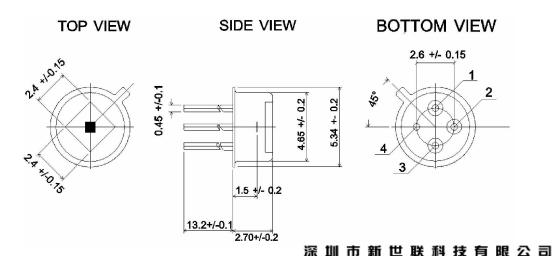
The TS118-3 is a thermopile sensor for use in contactless temperature measurement

Thermopiles are mainly used for conactless temperature measurement in many applications. Their function is to transfer the heat radiation emitted from the objects into voltage output. Major applications are appliances like microwave oven, clothes dryer, automatic cooking, medical devices like ear and fore head thermometer, automotive applications like car climate control, seat occupancy, blind spot alert, black ice detection, consumer products like printer, copier, mobile phone and many industry applications like paper web, plastic parts etc.



Parameter	Typical	Condition
Package	TO-18	
Absorber Area	0.7×0.7 mm ²	
Resistance of Thermopile	43±8 kΩ	+25 ℃
TC of Resistance	-0.06±0.04 %/K	+25°C → +75°C
Thermopile Voltage	4.4±1.1 mV	+25°C, BB +100°C,DC totally filled field of view
TC of sensitivity	-0.45±0.08 %/K	+25°C → +75°C
Noise Equivalent Voltage	30 nV/Hz ^{1/2}	+25°C
Rise Time	20±5 ms	τ ₆₃
Field of View	120°	
Filter	8-14 μm	band pass
Operation Temperature	-20 +85°C	
Operation Temperature	-20 +100℃	non permanent
Ambient Temperature Sensor	Ni-RTD	
Resistance	1000±4 Ω	0℃
TC of Resistance	6178±150 ppm/K	$0^{\circ}\text{C} \rightarrow +100^{\circ}\text{C}$
Connections		
Pin 1	TP +	
Pin 2	Ni-RTD	
Pin 3	TP -	
Pin 4	GND	

Mechanical Dimensions



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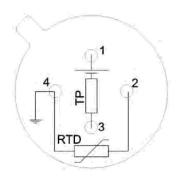


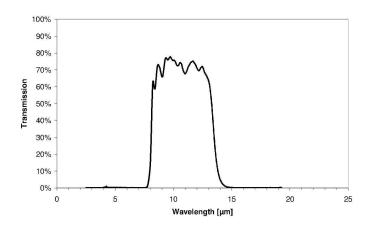
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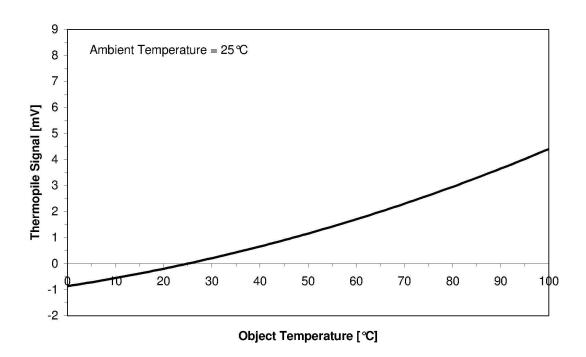
Connections Bottom View







Thermopile Signal



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